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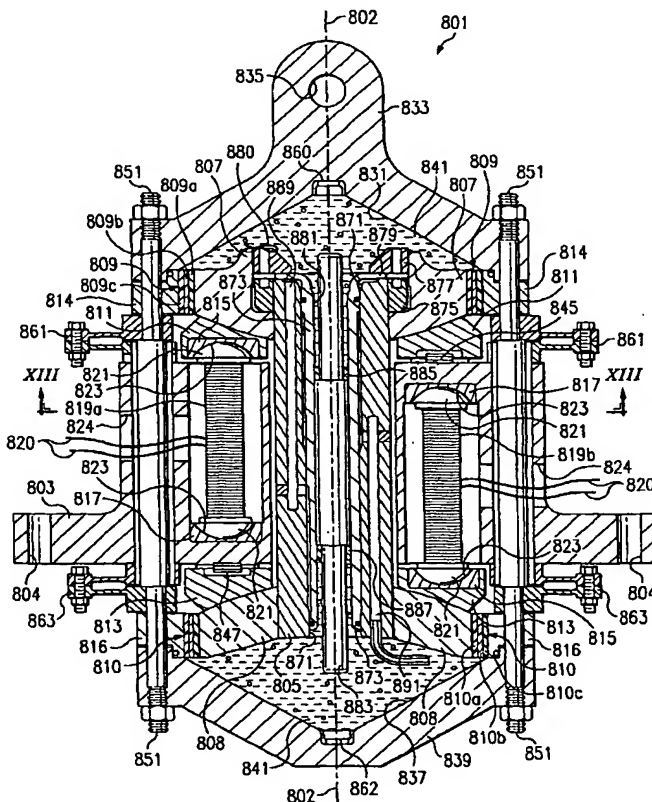
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(54) Title: **PIEZOELECTRIC LIQUID INERTIA VIBRATION ELIMINATOR**



(57) Abstract: A tunable vibration isolator shown in figure 8 with active tuning elements having a housing, fluid chamber, and at least one tuning port. A piston is resiliently disposed within the housing. A vibration isolation fluid is disposed within the fluid chambers and the tuning ports. The tunable vibration isolator may employ either a solid tuning mass approach or a liquid tuning mass approach. The active vibration elements are preferably solid-state actuators.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : F16F 07/10

US CL : 188/378

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 188/378

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,439,082 A (McKeown et al.) 8 August 1995 (08.08.1995)	1, 2, 5-8, 10, 11, 13-18, 21-25, 27, 28, 41 ----- 3, 9, 19, 20, 26, 29-31, 34-40, 42-44
Y	US 5,435,531 A (Smith et al.) 25 July 1995 (25.07.1995)	43,44
Y	US 5,458,222 A (Pla et al.) 17 October 1995 (17.10.1995)	9, 19, 20, 26, 29-31, 34, 37
Y	US 5,906,254 A (Schmidt et al.) 25 May 1999 (25.05.1999)	38-40, 42
Y	JP 06-144376 24 May 1994 (24.05.1994)	35-37

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